Approved For Release 2005/02/10 : CIA-RDP78B04770A000800050010-9

SECRET
(When Filled In)

997305

R & D CATALOG FORM

DATE 5 January 1965

1. PROJECT TITLE/CODE NAME
Zoom Projection Lens for Monochromatic Light PAR 233

2. SHORT PROJECT DESCRIPTION
The feasibility of designing a 10:1 Zoom projection lens for monochromatic light will be investigated.

3. CONTRACTOR NAME

4. LOCATION OF CONTRACTOR

Manufacturer

CPFF

7. FUNDS	8. REQUISITION NO.	9. BUDGET PROJECT NO.
FY 19 $ See Item 17	NA	NP-S-2 25X
FY 19 $	10. EFFECTIVE CONTRACT DATE (Begin - end)	11. SECURITY CLASS.
FY 19 $	Jan 65 - Dec 65	A. A. - Product - SECRET

12. RESPONSIBLE DIRECTORATE/OFFICE/PROJECT OFFICER TELEPHONE EXTENSION
DDI/NPIC/P&DS

13. REQUIREMENT/AUTHORITY A need is anticipated for a monochromatic zoom lens for rear-projection film viewing. The need arises from development effort in another company, of a near ultra-violet-sensitive high resolution screen.

14. TYPE OF WORK TO BE DONE

Applied Research

15. CATEGORIES OF EFFORT

MAJOR CATEGORY	SUB-CATEGORIES
Special Techniques and Studies	

16. END ITEM OR SERVICES FROM THIS CONTRACT/IMPROVEMENT OVER CURRENT SYSTEM, EQUIPMENT, ETC.
A report with conclusions and recommendations resulting from the investigation.

17. SUPPORTING OR RELATED CONTRACTS (Agency & Other)/COORDINATION
Funds are available under Fiscal Year 1964. 25X

18. DESCRIPTION OF INTELLIGENCE REQUIREMENT AND DETAILED TECHNICAL DESCRIPTION OF PROJECT (Continue on additional page if required) A need is anticipated for a monochromatic zoom lens for rear-projection film viewing. The need arises from development effort in another company, of a near-ultra-violet-sensitive high resolution screen. Parameters for the proposed lens design are:

a. Screen size to be 30 inches square
b. Film gate size to be 5 inches square
c. Lens system to zoom at ratio of 10 to 1. Magnifications to range from 6X to 60X. (Continued)

19. APPROVED BY AND DATE

OFFICE	DEPUTY DIRECTOR	DDCI

Declass Review by NGA.
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GROUP 1 Excluded from automatic downgrading and declassification

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R & D CATALOG FORM (Continued)

18. d. Radial distortion shall be low enough that it is not subjectively obvious in viewing a stationary image on the screen.

e. Lens aperture shall be fixed in size and position throughout the zoom range.

f. Desired goal for resolution to be 10 l/mm per power. The projection field is to be relatively flat so that the minimum resolution over the entire field will not be less than 6 l/mm per power.

g. Spectral zone is the near ultra-violet 3500A to 4000A band.

The program objectives are to investigate by design, computations and theoretical considerations of computation results, the feasibility of a 6X to 60X zoom projection lens with the desired image quality and distortion level. A final report with conclusions and recommendations will be furnished by the Contractor.

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